## In the claims:

- 1-13 (canceled)
- 14. (currently amended) A portable analyzer for detecting properties of a given sample analyte comprising:
  - a biosensor having a sensor surface;
- a fluid compartment <u>for retaining therein an analyte, said fluid compartment</u> in fluid communication with the <u>biosensor</u> <del>bio-sensor</del>; and
- a miniature electro-mechanical vibration device configured to vigorously shake the fluid compartment to enhance mass transport of analyte to the sensor surface.
- 15. (previously presented) The portable analyzer according to Claim 14 wherein the miniature electro-mechanical vibration device is further configured to vigorously agitate the contents of the fluid compartment.
- 16. (previously presented) The portable analyzer according to Claim 14 wherein the fluid compartment is configured to receive a liquid sample having an analyte suspended or dissolved therein, and further wherein the vibration device is configured to vigorously agitate the fluid compartment to cause an analyte suspended or dissolved in the liquid sample to accelerate the mass transport of analyte beyond that available in the absence of agitation.
- 17. (previously presented) The portable analyzer according to Claim 14 wherein the biosensor comprises an optically based miniaturized sensor.

- 18. (previously presented) The portable analyzer according to Claim 14 wherein the fluid compartment comprises:
  - a fluid chamber; and
- a lid configured to open and close such that a liquid or solid sample having a first analyte suspended therein can be sealed within the chamber.
- 19. (previously presented) The portable analyzer according to Claim 18 wherein the lid comprises a second analyte embedded therein such that agitation of the fluid compartment causes the second analyte to mix with the liquid or solid sample sealed within the chamber.
- 20. (currently amended) A portable analyzer for detecting properties of a given sample analyte comprising:
  - a biosensor having a sensor surface;
- a fluid compartment <u>for retaining therein an analyte, said fluid compartment</u> in fluid communication with the bio-sensor; and
- a miniature electro-mechanical vibration device configured to vigorously shake the biosensor to enhance mass transport of analyte to the sensor surface.
- 21. (previously presented) The portable analyzer according to Claim 20 wherein the miniature electro-mechanical vibration device is further configured to vigorously shake the fluid compartment.

- 22. (previously presented) The portable analyzer according to Claim 20 wherein the fluid compartment is configured to receive a liquid sample having an analyte suspended or dissolved therein, and further wherein the vibration device is configured to vigorously shake the fluid compartment to cause the analyte suspended or dissolved in the liquid sample to accelerate the mass transport of analyte beyond that available in the absence of agitation.
- 23. (previously presented) The portable analyzer according to Claim 20 wherein the biosensor comprises an optically based miniaturized sensor.
- 24. (previously presented) The portable analyzer according to Claim 20 wherein the fluid compartment comprises:
  - a fluid chamber; and
- a lid configured to open and close access to the fluid chamber such that a liquid or solid sample having a first analyte suspended therein can be sealed within the chamber.
- 25. (previously presented) The portable analyzer according to Claim 24 wherein the lid comprises a second analyte embedded therein such that agitation of the fluid compartment causes the second analyte to mix with the liquid or solid sample sealed within the chamber.

- 26. (currently amended) A portable analyzer for detecting properties of a given sample analyte comprising:
  - a biosensor having a sensing surface;
- a sample compartment configured to receive a sample having an analyte suspended therein in fluid communication with said biosensor; and
- a miniature electro-mechanical vibration device configured to vigorously shake the sample compartment to cause a desired portion of the analyte to contact the sensing surface of the biosensor.
- 27. (previously presented) The portable analyzer according to Claim 26 wherein the biosensor comprises an optically based miniaturized sensor.
- 28. (previously presented) The portable analyzer according to Claim 26 further comprising a sealing element configured to selectively seal the sample compartment.
- 29. (previously presented) The portable analyzer according to Claim 28 wherein the sealing element comprises a septum.
- 30. (previously presented) The portable analyzer according to Claim 28 wherein the sealing element comprises a removable cap.
- 31. (previously presented) The portable analyzer according to Claim 28 wherein the sealing element comprises a hinged cap.

- 32. (previously presented) The portable analyzer according to Claim 26 wherein the sample comprises at least one form selected from the group consisting of a liquid and a solid.
- 33. (previously presented) The portable analyzer according to Claim 26 further comprising at least one secondary reagent associated with the sample chamber such that the shaking of the sample compartment will cause analyte from a sample contained therein to mix with the secondary reagent.
- 34. (previously presented) The portable analyzer according to Claim 33 wherein the secondary reagent is embedded in the sample chamber.
- 35. (previously presented) The portable analyzer according to Claim 33 wherein the secondary reagent is embedded in the sealing element.
- 36. (previously presented) The portable analyzer according to Claim 26 wherein the sample compartment is configured to receive a liquid sample having an analyte suspended or dissolved therein, and further wherein the vibration device is configured to vigorously shake the sample compartment to cause the analyte suspended or dissolved in the liquid sample to accelerate the mass transport of analyte beyond that available in the absence of agitation.

- 37. (previously presented) The portable analyzer according to Claim 26 further comprising:
  - a data processing device;
  - a data input device in communication with the data processing device;
  - an algorithmic software directing the data processing device; and
- a data storage unit, wherein discrete analyte data associated with a sample contained within the sample compartment is stored and supplied to the data processing device such that the data processing device, directed by the algorithmic software, will automatically determine bioanalytical data associated with the sample, wherein predetermined parameters associated with the bioanalytical data are determined via the data input device.
- 38. (previously presented) The portable analyzer according to Claim 37 wherein the data processing device is a digital signal processor.
- 39. (previously presented) The portable analyzer according to Claim 37 wherein the data input device is a keypad.
- 40. (previously presented) The portable analyzer according to Claim 26 further comprising means for transmitting and receiving data via a wireless communications link.
- 41. (previously presented) The portable analyzer according to Claim 40 wherein the means for transmitting and receiving data comprises a radio frequency receiver and a radio frequency transmitter.

- 42. (new) The portable analyzer according to claim 14 wherein said biosensor is a surface plasmon resonance sensor.
- 43. (new) The portable analyzer according to claim 20 wherein said biosensor is a surface plasmon resonance sensor.
- 44. (new) The portable analyzer according to claim 26 wherein said biosensor is a surface plasmon resonance sensor.